

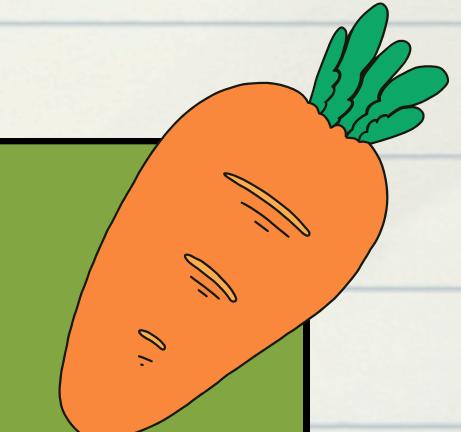
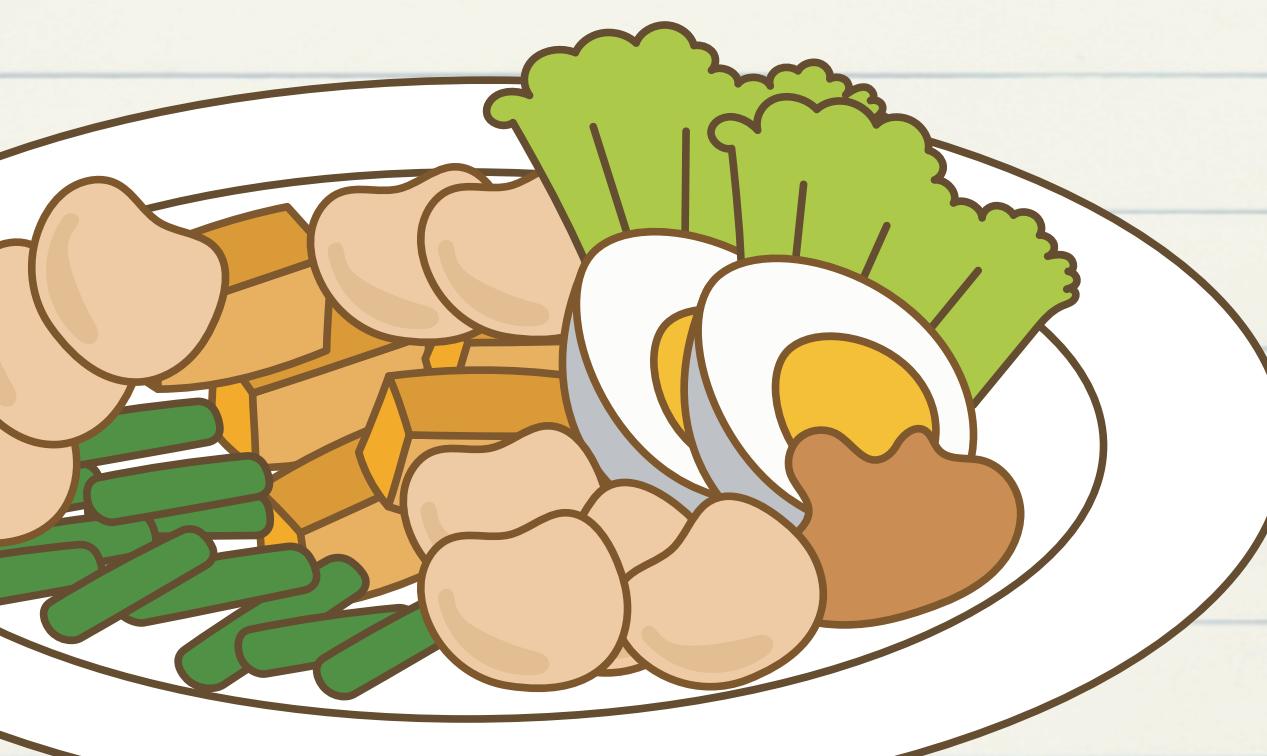
# **MANUAL BOOK**

Perbandingan Implementasi Algoritma K-Means  
dan K-Median untuk Pengelompokkan Wilayah di  
Indonesia Berdasarkan Status Gizi Penduduk

Alfian Indrajaya



## Deskripsi



Aplikasi ini digunakan untuk melakukan pengelompokan data status gizi penduduk berdasarkan kabupaten/kota di indonesia dengan menggunakan Metode K-Means, K-Medoids, dan CLARA

# Tampilan Beranda

The screenshot shows a dark-themed web application interface. On the left, there is a vertical navigation bar with four items: 'beranda' (selected), 'dataset', 'Gizi (clustering)', and 'profile'. The main content area has a title 'Clustering Wilayah di Indonesia' and a subtitle 'Berdasarkan Status Gizi Penduduk'. Below this, there are four sections: 'Gizi' (with text about nutrition being a key factor in population quality of life), 'Metode yang digunakan' (mentioning K-Means, K-Median, and CLARA), 'K-Means' (describing the algorithm as a clustering method that divides data into groups based on feature similarity), and 'K-Median' (describing it as a variant of K-Means using medians). A separate section for 'CLARA (Clustering Large Applications)' is also present. At the bottom right, there is a link 'Manage app'.

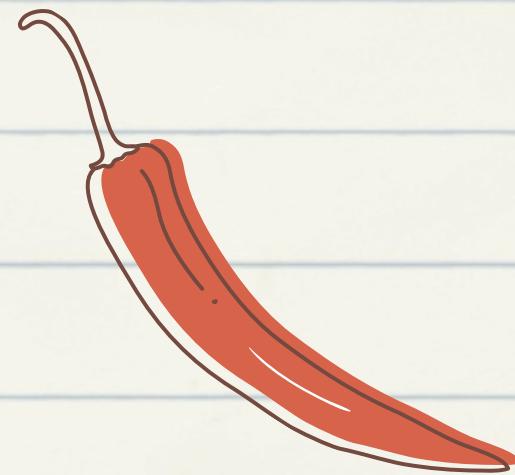
Cara akses :

- ketika memasuki website maka beranda akan langsung tampil

Penjelasan:  
Halaman halaman mengenai apa itu gizi dan metode yang digunakan pada perancangan website

Beranda merupakan penjelasan

# Halaman DATASET



The screenshot shows a dark-themed web application interface. On the left is a vertical navigation bar with buttons for 'beranda', 'dataset', 'Gizi (clustering)', and 'profile'. The main content area has a title 'Dataset' with a bar chart icon. Below it, a sub-header says 'Halaman ini berisi data yang digunakan untuk proses clustering.' A central box titled 'Deskripsi Dataset' contains text about a dataset for clustering Indonesia's kabupaten-level data from 2018 to 2023. It lists five categories: 'Kabupaten', 'PoU', 'Jumlah Penduduk', 'Penduduk Undernourish', and 'Percentase Penduduk Miskin P(0)'. Below this is a section titled 'Data ini terdiri dari:' with a bulleted list of the same five categories. At the bottom of the page are three buttons: 'Unduh Template & Panduan' (with a download icon), 'Template Dataset' (with a bar chart icon), 'Contoh Data' (with a bar chart icon), and 'Buku Panduan' (with a book icon). The footer includes a 'Manage app' link.

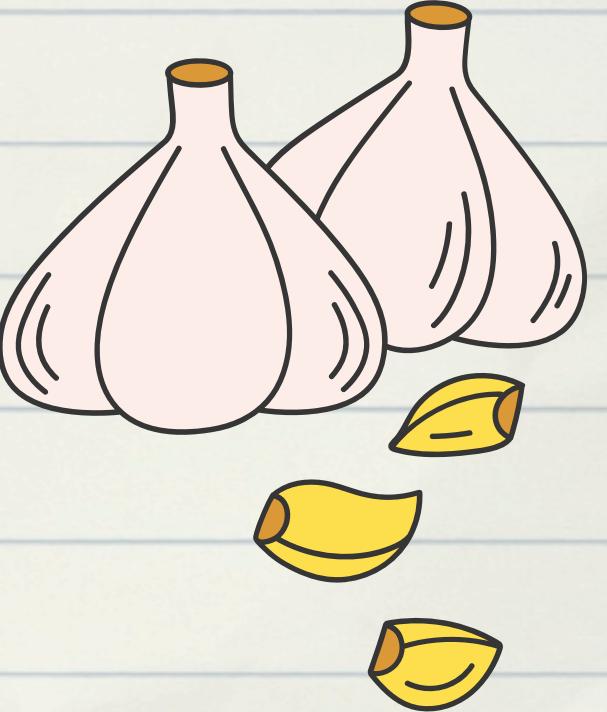
## Cara Akses :

- Klik tombol download Template Dataset atau contoh data untuk mendapatkan dataset
- Klik tombol Buku panduan untuk mendapatkan buku manual penggunaan website

## Penjelasan :

Halaman dataset berisi penjelasan tentang dataset yang digunakan untuk clustering serta berisi template data, contoh dataset dan buku manual penggunaan website

# Halaman Gizi (Clustering)

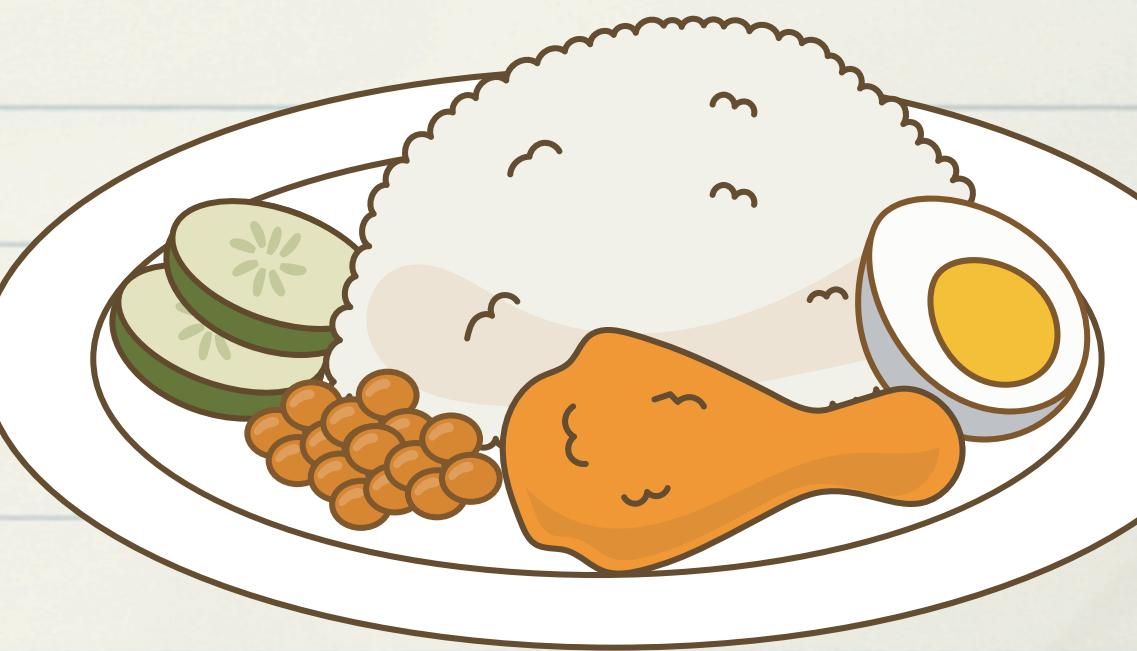


The screenshot shows a dark-themed web application titled "Clustering Gizi di Indonesia". On the left, there's a vertical sidebar with menu items: "beranda", "dataset", "Gizi (clustering)" (which is highlighted in green), and "profile". The main content area has a title "Clustering Gizi di Indonesia" and a sub-instruction: "Aplikasi ini melakukan Clustering Data Gizi menggunakan algoritma K-Means, K-Median, dan CLARA.". A prominent "Perhatian" (Attention) box contains the message: "Sebelum melakukan proses clustering, pastikan Anda sudah mengunduh dan menyiapkan dataset pada halaman Dataset.". Below this is a "Unggah Dataset" section with a "Drag and drop file here" input field and a "Browse files" button. Underneath is a "Pilih Parameter Clustering" section with dropdown menus for "Metode Clustering" (set to "Pilih metode") and "Jumlah Cluster (k)" (set to "Pilih jumlah cluster"). At the bottom right of the main area is a "Manage app" link.

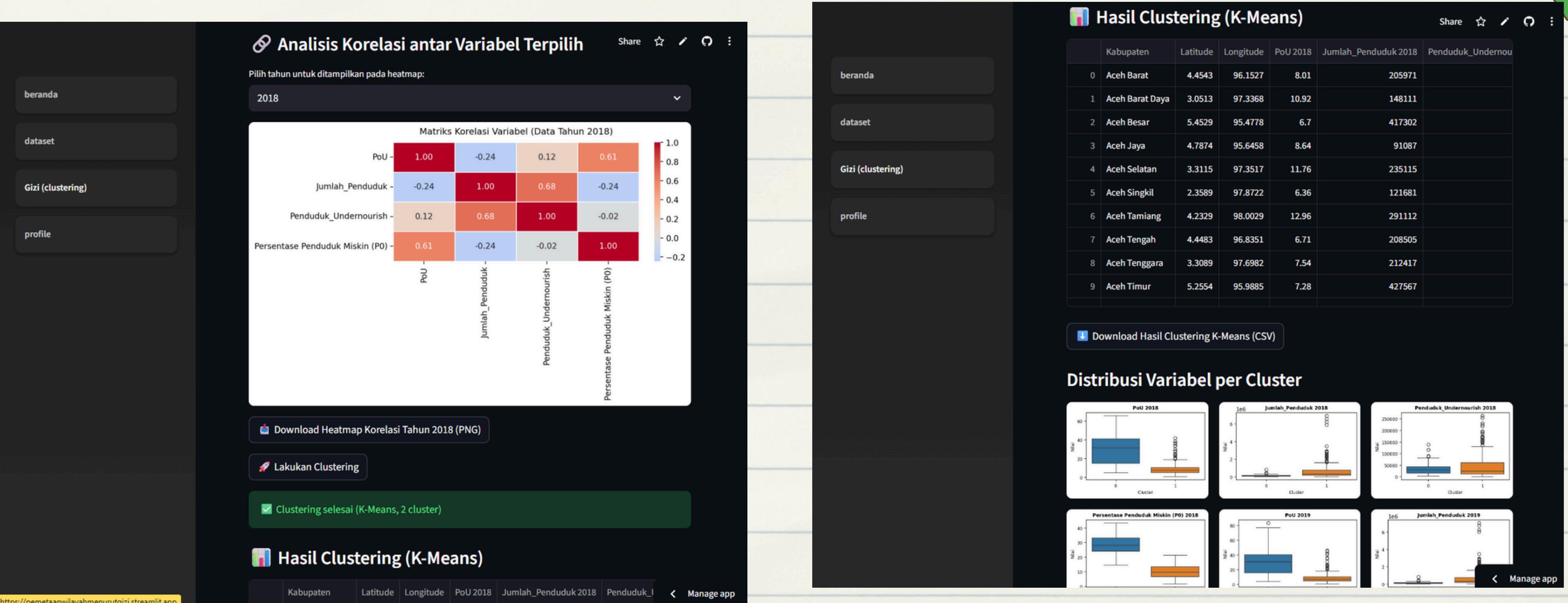
Halaman Gizi (Clustering) merupakan halaman yang berisi proses clustering wilayah di indonesia berdasarkan status gizi

Cara Menampilkan hasil :

- Unggah dataset yang sudah di download pada menu dataset.
- Pilih metode clustering dan jumlah cluster yang diinginkan
- Pilih Variabel yang ingin dianalisis



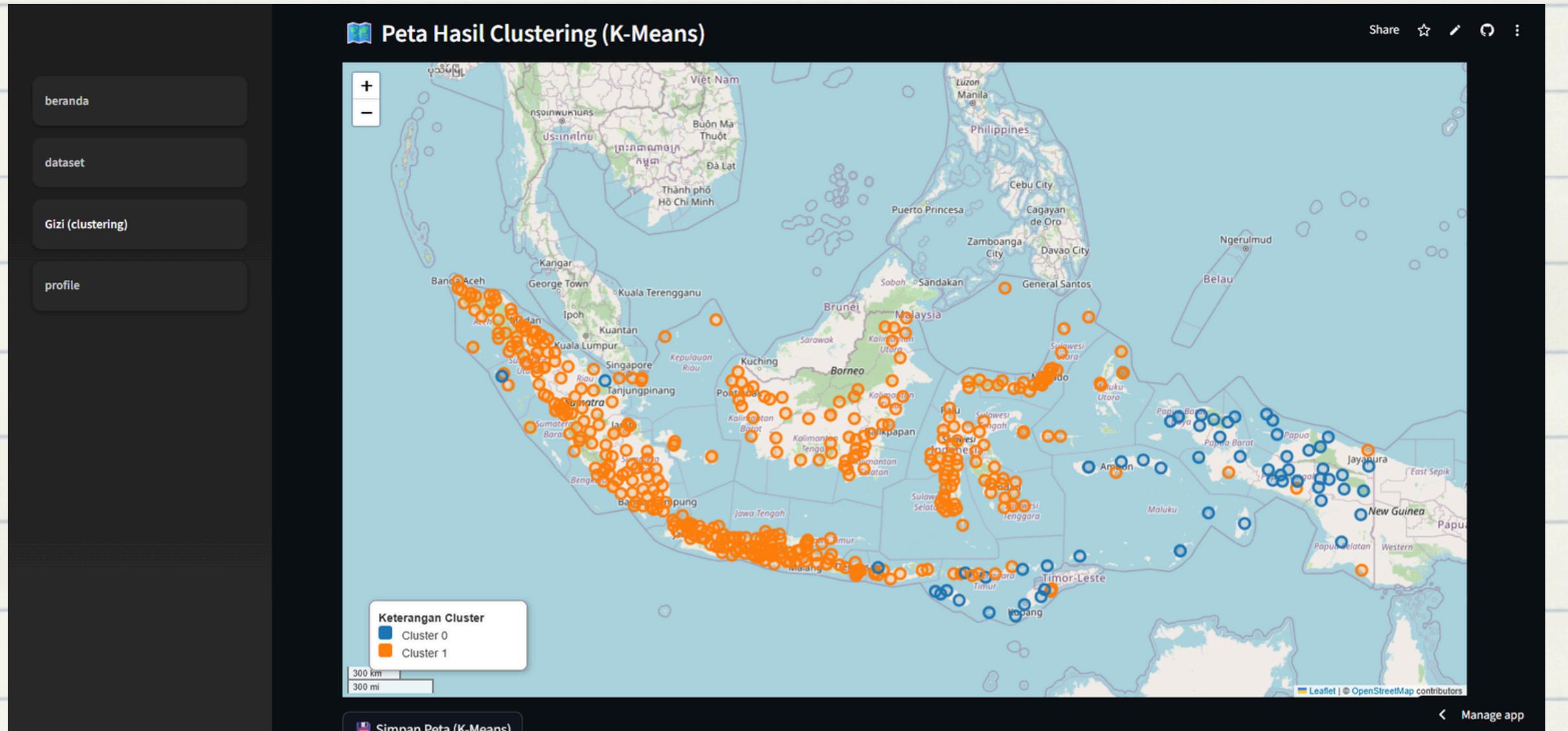
# Output Gizi (Clustering)



Akses :

- Visualisasi korelasi heatmap hasil clustering dan boxplot dapat diperoleh dengan Melakukan Scrolling ke bawah setelah menekan tombol lakukan clustering

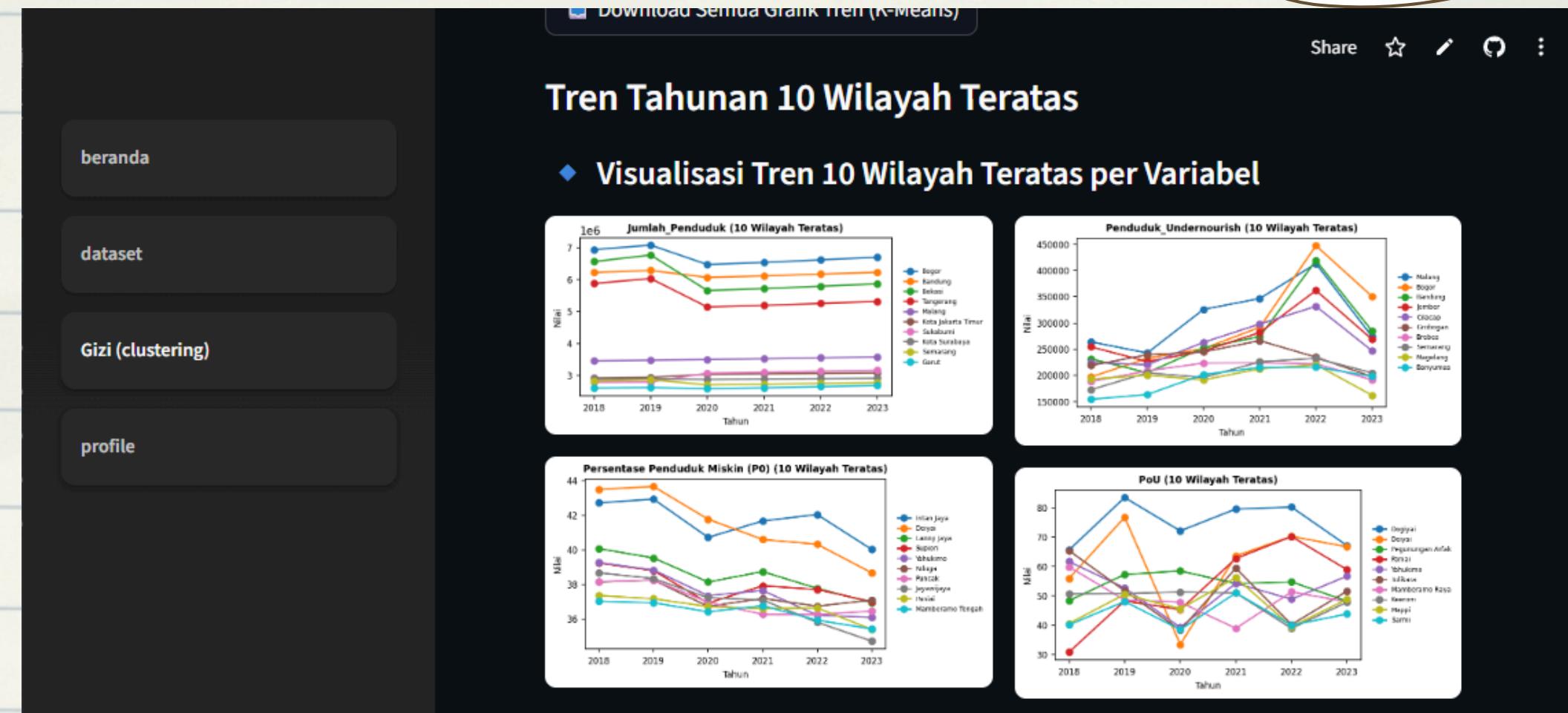
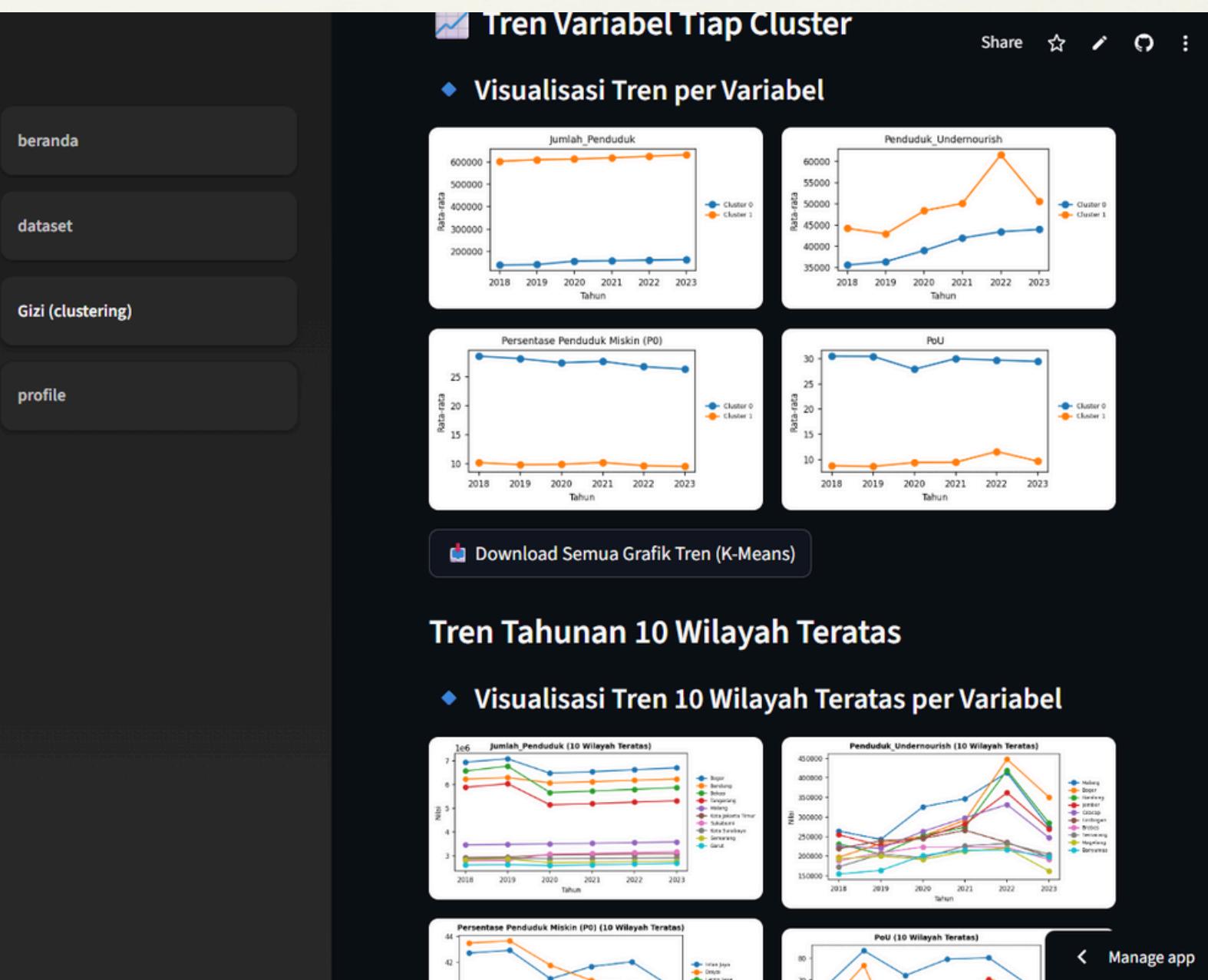
# Output Gizi (Clustering)



Akses :

- Visualisasi pemetaan wilayah dapat diperoleh dengan Melakukan Scrolling ke bawah setelah menekan tombol lakukan clustering

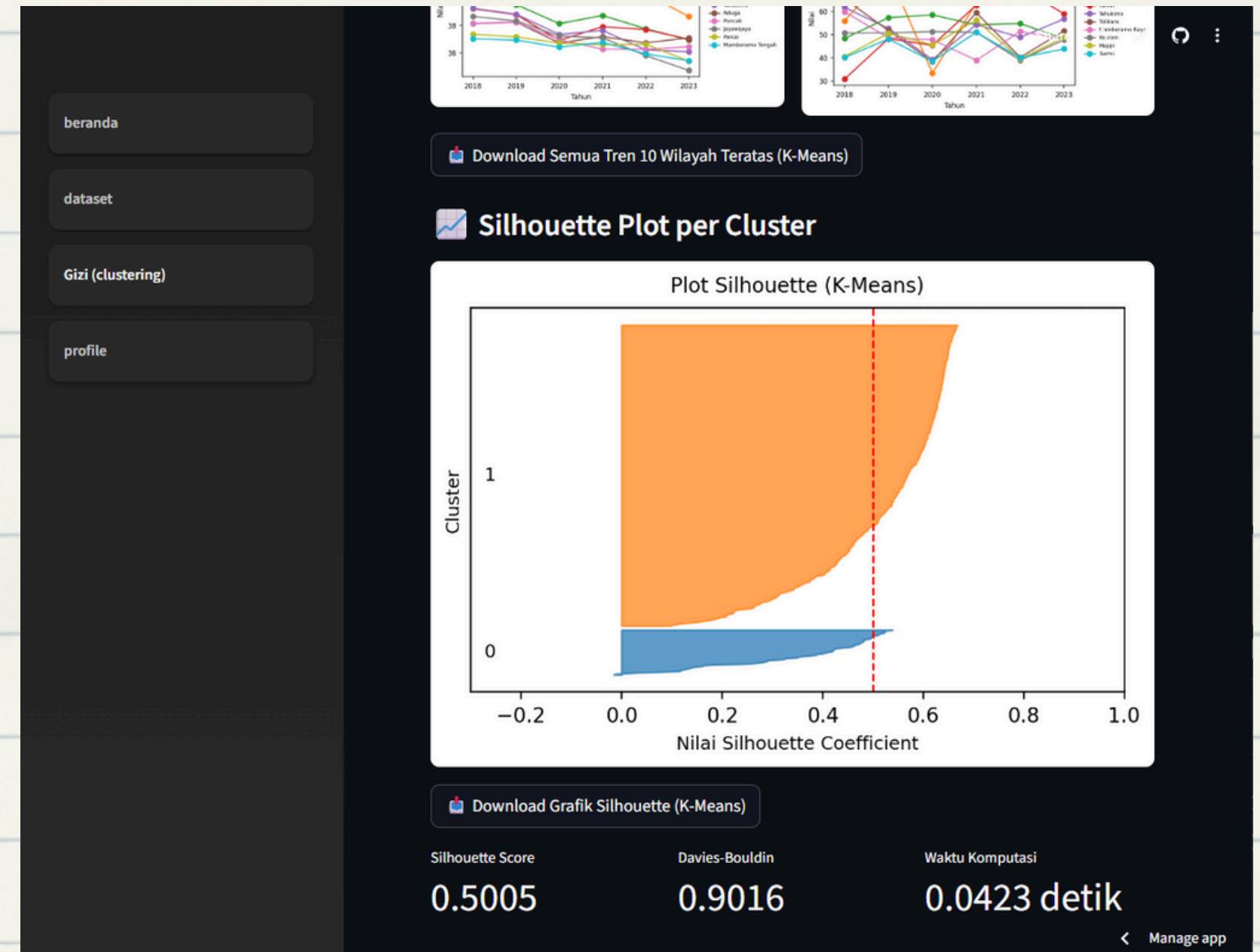
# Output Gizi (Clustering)



Akses :

- Tren setiap variabel dan tren 10 wilayah teratas setiap variabel dapat diperoleh dengan Melakukan Scrolling ke bawah setelah menekan tombol melakukan clustering

# Output Gizi (Clustering)



Akses :

- **Grafik nilai silhouette setiap cluster dapat didapatkan dengan Melakukan Scrolling ke bawah setelah menekan tombol lakukan clustering**



# Menu Profile

The screenshot shows a dark-themed website interface. On the left, there is a sidebar with four items: 'beranda', 'dataset', 'Gizi (clustering)', and 'profile'. The 'profile' item is highlighted with a blue background. The main content area has a title 'PROFILE' at the top. Below it is a circular profile picture of a man named Alfian Indrajaya. Underneath the picture, his name is displayed. Two dark gray callout boxes provide additional information: one labeled 'Hobi' (Hobbies) which states he has hobbies like playing games, watching movies, and listening to music; and another labeled 'Latar Belakang' (Background) which describes him as a student from Universitas Tarumanagara, majoring in Teknik Informatika, and mentioning his interest in data science and machine learning.

Menu profile dapat diakses dengan menekan Tombol profile yang ada pada sidebar website

Keterangan :

- Menu profile berisi penjelasan latar belakang dari perancang website.



# THANK YOU

FOR YOUR ATTENTION